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# ***The Molecular Biology of Poliovirus***

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The book provides the first comprehensive review of an animal picornavirus, and of the best studied of all animal viruses: the poliovirus. It summarizes research on poliovirus biology during the last three decades. Older data are reinterpreted with respect to more recent information. Poliovirus research has again attracted considerable interest within the last years. High points have been the elucidation of the complete nucleotide sequences of the RNAs of a wild type poliovirus and its vaccine strains; further characterization of the antigenic sites on the virus particle and of the antigenic drift; characterization of alternative conformational states of the virion capsid; observations on the role of the plasma membrane, cytoskeleton, and cytoplasmic membranes as mediators in the virus-induced redirection of the synthetic machinery of the host cell; and studies on enzymes involved in RNA replication.

The text is illustrated by more than 150 figures and tables, including construction plans for a poliovirus model and a list of the world laboratories presently engaged in research on the molecular biology of poliovirus. More than 2 000 references are summarized. Some unanswered questions concerning poliovirus structure and replication are listed at the end of the book.

Poliovirus research has provided impetus to our growing knowledge of the molecular mechanism in cell biology and of the cytological basis of viral diseases. The book should therefore be of interest not only to students and researchers in the field of virology, but also to cell biologists, physicians, and pharmacologists.

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